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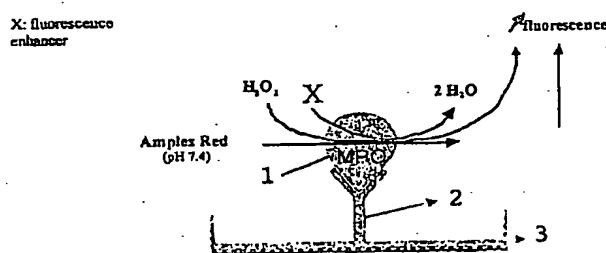
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immunomodulators; the assessment of immune responses, either natural and/or after treatment with immunomodulators and/or drugs; and the study of cells and their ability to fight microorganisms and/or to destroy them.

(57) Abstract: The present invention is related to accurate detection methods for the measurement only of myeloperoxidase (MPO) levels of neutrophils, preferably equine neutrophils, in complex biological samples. The present invention is further related to ELISA and SIEFED assays for such detection. SIEFED detection sensitivity of active peroxidase activity was found to be enhanced by the addition of nitrite. Such MPO measurement finds its use in many applications such as the prediction, diagnosis and/or monitoring of pathologies correlated with neutrophil activation and/or destruction; the evaluation of drugs and/or